

## Program Requirements

### Prerequisites for Admission

- Basic chemistry
- Basic math
- Basic biology

A student can show proficiency in the above prerequisites through their undergraduate degree, taking CLEP exams, or experience. Alternatively a program can be specified to remedy deficiencies.

- Graduate Record Exam (GRE)

### Additional Requirements

MS students are required to complete 36 credit hours and Ph.D. students are required to complete 60 hours above the MS degree or 90 hours above the BS degree, including dissertation hours.

Ph.D. students must also satisfy the following requirements:

Skill Component (6 hours)

Research skill includes: collection of data, data analysis, research methodology, data interpretation and research presentation. Suggested list of courses is available from the Program Coordinator or web site.

Dissertation (15-24 hours)

The student must perform research that contributes substantially to the advancement of the environmental profession. At the conclusion of the student's program, an oral defense of the written dissertation is required.

## Faculty

### Stillwater Faculty

#### **Will Focht, Associate Professor**

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#### **William McTernan, Professor**

Civil & Envir. Engineering  
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#### **Dee Ann Sanders, Associate Professor**

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#### **Michael Smolen, Professor**

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#### **Arthur Stoecker, Professor**

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#### **Dan Storm, Professor**

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#### **John Veenstra, Professor**

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### Tulsa Adjunct Faculty

#### **Dr. Tony Clyde**

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#### **Dr. Ken Ede**

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#### **Dr. Kevin Gustavson**

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#### **Dr. Ed Rossman**

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## Environmental Management Specialization

- Applied Research
- Corporate Environmental Management
- Environmental Consulting
- Facility and Project Management
- Policy and Program Management

Environmental Science Graduate Program  
Oklahoma State University  
003 Life Sciences East  
Stillwater OK 74078-3011

<http://environ.okstate.edu/es>  
405-744-9229  
or 1-888-477-7422

## Program Description

The objective of Environmental Management specialization is to provide those environmental science graduate students who wish to pursue a professional career in industry, consulting, or government an officially recognized degree plan that places higher importance on practical problem-solving than on research. The option will require an interdisciplinary, applied practicum course followed by an internship in which the student must solve an actual environmental problem using international standards of environmental management practice. MS students can substitute the internship report for the thesis, though those who wish to pursue a doctoral degree are encouraged to complete a thesis. Doctoral students must also complete a scholarly dissertation.

## Research Component

Our Program is the first one in this part of the United States. EM students have taken their internships in governmental agencies such as the EPA, Corps of Engineers, US Air Force Bases and local agencies such as the City of Tulsa. We have students who have gone to other states for their internships at agencies such as SAIC (St. Louis) and the Virginia Department of Environmental Quality. Internships at private sector organizations such as consulting firms, universities and industries are also available.

## Core Courses

ENVR 5303	Issues in Environmental Sustainability
ENVR 5500	Environmental Management Practicum and Report
ENVR 5600/5510	Environmental Management Internship
ENVR 6200/6011/6022/6031	Seminar in Environmental Problems - given in 3 segments
ENVR 6503	Advanced Environmental Management Practicum
ENVR 6600/6516	Advanced Environmental Management Internship

Red Color denotes courses with number change



## Suggested Additional Courses

BAE 6343	Groundwater Contaminant Transport
CIVE 4823	Human Impact on the Environment
CIVE 5833	Introduction to Groundwater Modeling
ENVR 5050	Readings in Environmental Science*
ENVR 5523	Industrial Ecology for Environmental Scientists*
ENVR 5210	Applied Standards for Environmental Managers*
ENVR 5123	Environmental Problem Analysis*
ENVR 5543	Environmental Management Systems*
ENVR 5703	Chemical Aspects of Environmental Science I
ENVR 5713	Chemical Aspects of Environmental Science II
ENVR 5743	Environmental Impact Assessment*
ENVR 6050	Advanced Readings in Environmental Science*
ENVR 6310	Advanced Topics in Environmental Science*
IEM 5113	Strategic Quality Leadership
GEOG 4343	Geographic Information Systems
POLS 5613	Seminar in Public Policy
POLS 5633	Practical Environmental Compliance
POLS 5643	Regulatory Risk Analysis
SOC 5463	Seminar in Environmental Sociology

\* Denotes courses in development or courses with number change

## Research Areas



Community Relations



Compliance and Enforcement



Economic Assessment



Ecosystem Management



Environmental Impact Assessment



Environ. Management Systems



Environmental Law and Policy



Environmental Risk Management



Environmental Planning



Materials Management



Policy Analysis



Renewable Energy



Resource Management



Risk Communication

Waste Management

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